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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/761,881	01/20/2004	Chih-Wei Huang	67,200-1225	3162
7590 10/13/2006		EXAMINER		
TUNG & ASSOCIATES			KACKAR, RAM N	
Suite 120 838 W. Long La	ake Road		ART UNIT	PAPER NUMBER
Bloomfield Hills, MI 48302			1763	
			DATE MAILED: 10/13/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	-	Application No.	Applicant(s)				
Office Action Summary		10/761,881	HUANG ET AL.				
		Examiner	Art Unit				
		Ram N. Kackar	1763				
Period fo	- The MAILING DATE of this communication app r Reply	ears on the cover sheet with the c	orrespondence address				
WHIC - Exten after S - If NO - Failur Any re	DRTENED STATUTORY PERIOD FOR REPLY HEVER IS LONGER, FROM THE MAILING DASIONS of time may be available under the provisions of 37 CFR 1.15 (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, apply received by the Office later than three months after the mailing d patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	I. ely filed the mailing date of this communication. (35 U.S.C. § 133).				
Status							
1) 又	Responsive to communication(s) filed on <u>03 Au</u>	ugust 2006.					
	This action is FINAL . 2b) This action is non-final.						
· <u> </u>	_						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
	on of Claims						
4)⊠	Claim(s) <u>1-12 and 17-20</u> is/are pending in the a	application					
	4a) Of the above claim(s) <u>17-20</u> is/are withdrawn from consideration.						
	Claim(s) is/are allowed.						
	6)⊠ Claim(s) <u>1-12</u> is/are rejected.						
·							
	·						
,	·	cicolori requirement.					
Application	on Papers						
9) The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
l	Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	nder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
;	3. Copies of the certified copies of the priority documents have been received in this National Stage						
	application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(•						
	of References Cited (PTO-892)	4) Interview Summary					
	of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO/SB/08)	te stent Application					
Paper	No(s)/Mail Date	6) Other:					

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DETAILED ACTION

Election/Restrictions

1. Applicant's election of 1-16 in the reply filed on 1/13/2006 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-2, 6, 9-10 and 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Park et al (US 6464794).

Park et al disclose an insert ring (edge ring Fig 2-24) of silicon (Col 5 lines 42-45) with an annular step encircling a wafer support in a plasma-processing chamber. The insert ring is surrounded by a shadow ring (28).

4. Claims 1-2, 6, 9-10 and 12 are rejected under 35 U.S.C. 102(a) and 35 U.S.C. 102(e) as being anticipated by Kanno et al (US 20030029572).

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Kanno et al disclose an as insert ring (focus ring Fig 8-32) of silicon (Paragraph 60) with an annular step encircling a wafer support in a plasma processing chamber. The insert ring is surrounded by a shadow ring (unnumberd part).

5. Claims 1-2, 6, 9-10 and 12 are rejected under 35 U.S.C. 102(a) and 35 U.S.C. 102(e) as being anticipated by Ma et al (US 20030106646).

Ma et al disclose an as insert ring (focus ring Fig 6a-304) of silicon (Paragraph 51) with an annular step encircling a wafer support in a plasma processing chamber. The insert ring is surrounded by a shadow ring (324).

6. Claims 1-2, 6, 9-10 and 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Nagaiwa et al (US 20020029745).

Nagaiwa et al disclose an insert ring (Focus ring Fig 2-12) of silicon (paragraph 45) with an annular step encircling a wafer support in a plasma-processing chamber. The insert ring is surrounded by a shadow ring (24 and 18).

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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8. Claims 3-5, 7-8 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Park et al (US 6464794).

Park et al disclose an insert ring (edge ring Fig 2-24) of silicon (Col 5 lines 42-45) with an annular step encircling a wafer support in a plasma-processing chamber.

Park et al do not explicitly disclose the height of the edge ring as in Fig 2-24 but disclose that in general the height is 3-6-4.5 mm (Col 8 lines 20-30). Further the height of the taller part could be increased by 2-4-3.0 mm (Col 10 lines 62-67). Park further teaches that the height is determined by process requirement as the focus ring height is known to affect the plasma orientation and the lift of the ring expected.

Therefore having a height of 3.5 mm of one part and of 1.5 mm of the other part would have been an obvious compromise for one of ordinary skill in the art at the time of invention.

Response to Arguments

Applicant's arguments filed 8/3/2006 have been fully considered but they are not persuasive.

Applicant argues against the references sited. In response several rejections are removed. However rejections as above stand as new limitations are disclosed.

Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ram N. Kackar whose telephone number is 571 272 1436. The examiner can normally be reached on M-F 8:00 A.M to 5:P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Parviz Hassanzadeh can be reached on 571 272 1435. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ram Kackar

Primary Examiner AU 1763